



PATENT  
514425-3596

**REQUEST FOR EXTENSION OF TIME**

It is respectfully requested that the period for reply to the October 30, 2001 Office Action be extended three months, i.e., to up to and including April 30, 2002. A check in the amount of \$920.00 is enclosed to cover the extension fee. The Examiner is authorized to charge any deficiencies in such fees, or credit any overpayment of such fees, to Deposit Account No. 50-0320.

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**AMENDMENT**

Kindly amend the application without prejudice, without admission, without surrender of subject matter and without any intention of creating any estoppel as to equivalents.

**IN THE CLAIMS:**

Please amend claims 17, 18, 22 and 23, without prejudice, without admission, without surrender of subject matter and without any intention of creating any estoppel as to equivalents, to read as follows:

17. (Amended Twice) A toner for developing an electrostatically charged copier or printer image, the toner consisting essentially of:

- a) a binder resin;
- b) a colorant; and
- c) a charge control agent,

the binder resin further comprises a polyolefin resin having a cyclic structure

having:

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(i) a low-viscosity resin with a number average molecular weight ( $M_n$ ) of 1000 to 7500 and a weight average molecular weight ( $M_w$ ) of 1,000 to 15,000, as measured by GPC, an intrinsic viscosity (i.v.) of less than 0.25 dl/g, and a heat distortion temperature (HDT) by DIN53461-B (August 2, 1995) of lower than 70°C; and

(ii) a high-viscosity resin having a number average molecular weight of at least 7,500 and a weight average molecular weight of at least 15,000, as measured by GPC, an i.v. of 0.25 dl/g or more, and an HDT of 70°C or higher;

wherein the polyolefin resin is a copolymer derived from an alpha-olefin, an alicyclic compound having a double bond and, optionally, a diene monomer, and wherein the electrostatically charged copier or printer image is fixed using a heat roller fixing means.

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cont.  
18. (Amended Twice) A toner for developing an electrostatically charged copier or printer image, the toner consisting essentially of:

- a) a binder resin;
- b) a colorant; and
- c) a charge control agent,

the binder resin further comprises a polyolefin resin having a cyclic structure

having:

(i) a low-viscosity resin having a number average molecular weight ( $M_n$ ) of 3,000 to 7,500 and a weight average molecular weight ( $M_w$ ) of 4,000 to

15,000, as measured by GPC, an intrinsic viscosity (i.v.) of less than 0.25 dl/g, and a heat distortion temperature (HDT) by DIN53461-B (August 2, 1995) of lower than 70°C, and

(ii) a high-viscosity resin having a number average molecular weight of 7,500 to 50,000 and a weight average molecular weight of 15,000 to 100,000, as measured by GPC, an i.v. of 0.25 dl/g or more, and an HDT of 70°C or higher;

wherein the polyolefin resin is a copolymer derived from an alpha-olefin, an alicyclic compound having a double bond and, optionally, a diene monomer, and wherein the electrostatically charged copier or printer image is fixed using a heat roller fixing means.

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22. (Amended Twice) The toner according to claims 16, 17 or 18, wherein the binder resin includes said polyolefin resin with a cyclic structure having an intrinsic viscosity (i.v.) of 0.25 dl/g or more, a heat distortion temperature (HDT) by DIN53461-B (August 2, 1995) of 70°C or higher, and a number average molecular weight of 7,500 or more and a weight average molecular weight of 15,000 or more, as measured by GPC, which is contained in a proportion of less than 50% by weight based on the entire binder resin.

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23. (Amended Twice) The toner according to claims 16, 17 or 18, wherein the binder resin consists of 1 to 100 parts by weight of said polyolefin resin having a cyclic structure, and 0 to 99 parts by weight of at least one resin selected from the group consisting of polyester resins, epoxy resins, polyolefin resins, vinyl acetate resins, vinyl acetate copolymer resins, acrylate resins and styrene-acrylate resins.

Kindly add new claims 26 and 27, without prejudice, without admission, without surrender of subject matter and without any intention of creating any estoppel as to equivalents, to read as follows:

26. A toner for developing an electrostatically charged copier or printer image, comprising:

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- a) a binder resin that includes a copolymer having a cyclic structure of
    - (i) ethylene, propylene or butylene, and
    - (ii) cyclohexene or norbornene, and optionally,
    - (iii) a diene;
  - b) a colorant; and
  - c) a charge control agent,

wherein the electrostatically charged copier or printer image is fixed using a heat roller fixing means.

27. The toner according to claim 26, wherein said copolymer is formed by a metallocene catalyst or a Ziegler catalyst.